APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

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RT-2046

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NLL 5828.4F (11822)

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The Role of the Interphase Solution in the Kinetics of the Solution of Salts, by A. B. Zdanovskiy, 14 pp.

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SLA R-2791.

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Full translation.

RUSSIAN, no per, Zhurn Fiz Khim, USSR, Vol XX, 1946, pp 881-894.

AEC Tr 1451

Scientific - Chemistry, concentrated solutions

Dec 52 CRS/OEX

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Assoc Tech Sv TR
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AEC Tr 312

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SLA 59-20896

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The Kinetics of Thermal Decomposition of Silver Oxalate, by B. V. Yerofeyev, et al. RUSSIAN, per, Zh Fiz Khim, Vol XX, No 10, 1946, pp 1103-1112.
NASA TT F-10,415

Sci-Phys
Dec 66 316,474

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NLL 5828.4F (11824)

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Sept. 67 340,147

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Nat'l Res Council Canada TT 229

Scientific - Physics
Jul CIB/DEK Price 0.25 16,466

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Zhur Fiz Khim XX, 1209-11, (1946)

Calculation of Normal Electrode Potentials From Spectroscopic and Thermochemical Data

E. N. Gapon

SLA-TR R-3057

(Wilson Dam 2816)

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Catalytic Recombination of Active Centers as Applied to Measurement of Their Concentration in the Zone of the Reaction, 13 pp. by E. I. Kondratieva and V. N. Kondratiev

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Avail Armed Services Tech Agency Info as ATI 83148

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The Measurement of the Coefficient of the Atomic Hydrogen Recombination at Various Surfaces by the Method of Determination of the Lower Ignition Limit of the $2H_2 - O_2$ Mixture, 15 pp. by A. B. Nalbandian and S. M. Shubina

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Zhur Fiz Khim Vol 20, page 1259-82 (1946)

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AEC Trans (avail. Brookhaven)

(RT-1215)

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

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Scientific- Chemistry, Physics 1544

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ZUOR-F17-AH/C1

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RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 22, 1948, No 1, pp 49-51.
CFSTI TT-64-19353.

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Sci - Chemistry
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On the Polyene Absorption Spectra Relationship Between Structure and Position of the Absorption Maximum, by G. V. Troitskii.
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NLL 5828.4F (11712)

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The Slow Oxidation of Hydrogen and the Third Ignition Limit, 21 pp. by V. V. Voedodsky

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SLA Tr R-1228

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Thermal Reactions of Acetylene. III. Kinetic Theory of Acetylene Formation in the Thermal Decomposition of Methane, by N. N. Znamenskiy, D. A. Frank-Kamenetskiy, 6 pp.

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Assoc Tech Serv 09J16R
ATS RJ-834
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CONCERNING THE INITIATION OF HOMOGENEOUS GAS REACTION BY SOLID CATALYSTS. [1961] 16p. 12 refs. [DSIR LLU] M.2602.
Order from OTS or SLA $1.60 61-23275

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1946, v. 20 [no. 11] p. 1325ff.

DESCRIPTORS: *Gases, *Chain reactions, Starting, Catalysts, Chemical reactions, Solids.

(Chemistry--Physical, TT, v. 6, no. 4)

61-23275

I. Bogoyavlenskaya, M. L.
II. Kovalskii, A. A.
III. DSIR LLU M.2602

177711

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Avramenko, L. I., Gerber, M. I., Neiman, M. B., and Shushunov, V. A.
A KINETIC METHOD OF PHYSICO-CHEMICAL ANDLYSIS. I. KINETICS OF REACTION BETWEEN LEAD-SODIUM ALLOYS AND ETHYL CHLORIDE VAPORS. [1963] [30p] (3 figs. omitted) 15refs
Order from OTS or SLA $2.60 63-18238

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1946, v. 20, no. 11, p. 1347-1358.

DESCRIPTORS: *Reaction kinetics, *Lead alloys, *Sodium alloys, *Ethyl radicals, *Chlorides, Vapors, Catalysis

(Chemistry--Physical, TT, v. 10, no. 11)

63-18238

1. Title: Ethyl chlorides
2. Title: Tetraethyl lead
I. Avramenko, L. I.
II. Gerber, M. I.
III. Neiman, M. B.
IV. Shushunov, V. A.
V. Title: Kinetics...

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Combustion of Methyl Nitrate Vapors, by Ya. B. Zel'dovich, Yu. Kh. Shaulov, 13 pp.

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JPRS 7044

Sci - Chem

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The Effect of Physical Structure and State of Aggregation on the Sensitivity of Explosives, by A. Ya. Apin, V. K. Bobolev, 4 pp.

RUSSIAN, par, Zhur Fiz Khim, Vol XX, 1946, pp 1367-1374.

ABC Tr 378
OTS 62-26504

Sci - Phys

Oct 59

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JPRS 7444

Sci - Phys, Chem
25 Jan 61

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Investigations Into the Combustion of Mercury Fulminate, by A. F. Belyayev, A. E. Belyayeva, 29 pp.

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JPRS 7513

Sci - Chem

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(NY-4842)

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JPRS 7512

Sci - Phys

Feb 61

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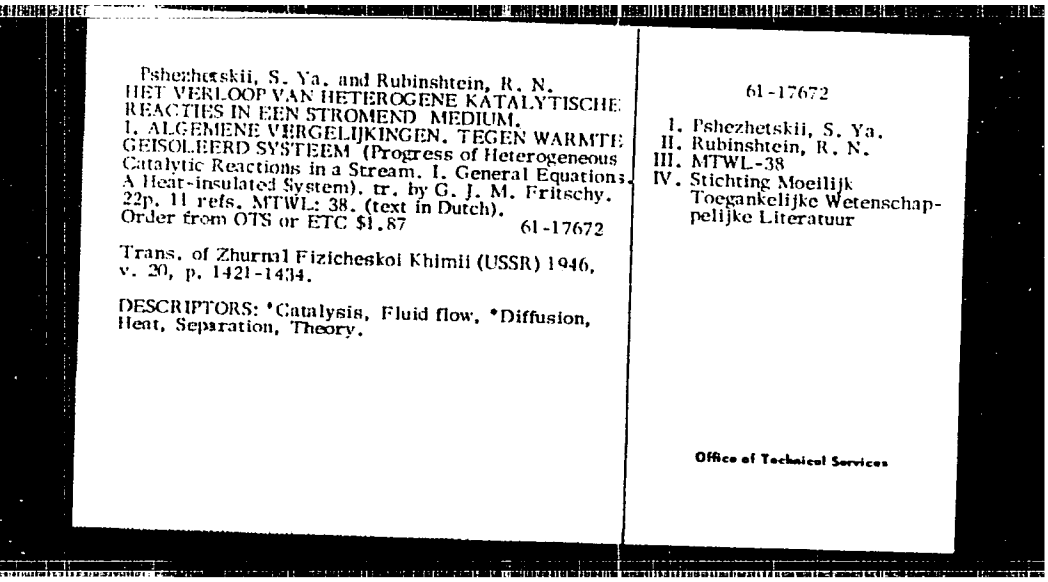

Pshezhetskii, S. Ya. and Rubinshtein, R. N.
HET VERLOOP VAN HETEROGENE KATALYTISCHE REACTIES IN EEN STROMEND MEDIUM.
I. ALGEMENE VERGELIJKINGEN. TEGEN WARMTE GEISOLEERD SYSTEEM (Progress of Heterogeneous Catalytic Reactions in a Stream. I. General Equations. A Heat-insulated System). tr. by G. J. M. Fritschy. 22p. 11 refs. MTWL: 38. (text in Dutch).
Order from OTS or ETC $1.87 61-17672

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1946, v. 20, p. 1421-1434.

DESCRIPTORS: *Catalysis, Fluid flow, *Diffusion, Heat, Separation, Theory.

61-17672

I. Pshezhetskii, S. Ya.
II. Rubinshtein, R. N.
III. MTWL-38
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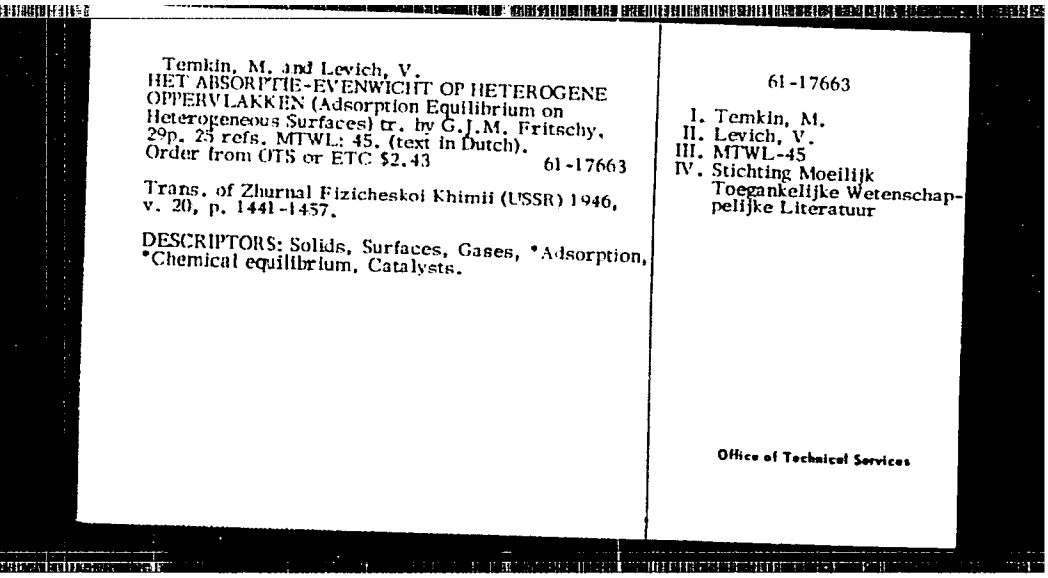

Temkin, M. and Levich, V.
HET ABSORPTIE-EVENWICHT OP HETEROGENE OPPERVLAKKEN (Adsorption Equilibrium on Heterogeneous Surfaces) tr. by G.J.M. Fritschy, 29p. 25 refs. MTWL: 45. (text in Dutch).
Order from OTS or ETC $2.43 61-17663

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1946, v. 20, p. 1441-1457.

DESCRIPTORS: Solids, Surfaces, Gases, *Adsorption, *Chemical equilibrium, Catalysts.

61-17663

I. Temkin, M.
II. Levich, V.
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RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 12, 1946, pp 1475-1485.

DSIR LLU (loan) M. 232

Sci - Min/Met
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On Some Properties of Vanadium Nitride Crystals,
by V. A. Epel'baum, B. F. Ormont, 16 pp.

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AEC-Tr-5805

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Pospekhov, D. A.
STABILITY OF METAL CARBONYLS. [1963] 7p. (refs. omitted).
Order from OTS or SLA $1.10 63-16807

Trans. in manuscript of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1947, v. 21 [no. 1] p. 11-13.
Another trans. is available in Dutch from OTS or ETC $1.55 as 61-17756, MTWL-91, 6p.

DESCRIPTORS: *Metallic compounds, *Carbonyl radicals, Stability, Copper compounds, Chemical bonds.

(Chemistry--Physical, TT, v. 10, no. 8)

63-16807

I. Pospekhov, D. A.

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2618

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Investigation of the Iono-organic Catalysis by the Method of the Theory of Active Ensembles. II. Catalytic Polymerization of Acetylene to Vinyl Derivatives, by E. M. Martinsen, N. I. Kobozev, 20 pp.

RUSSIAN, per, Zhur.Fiz.Khimii, Vol. XXI, No 1, 1947, pp 85-96.

Sci Tr Center RF-2452

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The Kinetics of the Catalytic Process With the Simultaneous Presence of Several Catalysts in a Homogeneous Medium, by G. A. Bogdanov, 13 pp.

RUSSIAN, per. Zhur Fiz Khim, Vol XXI, No 1, pp 51-63, 1947.

AMC F-TR-5931-RE

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Equilibrium in the System $KCl-NH_4H_2PO_4-H_2O$ between 11.2° and 35°, by V. A. Polosin, M. I. Shakharonov, 6 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXI, 1947, pp 119-123.

SLA/R-2631

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Zhur Fiz Khim, XXI, 197-200 (1947)

The Solubility of Potassium Hexafluorosilicate

I. G. Ryss (Dept Gen Chem, Dnepropetrovsk Metallurgical Inst)

(Wilson Dam 2545)

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Mechanism of the Inhibitor Action on Solution of Iron in Acids, by V. A. Kuznetsov, Z. A. Iofa. RUSSIAN, per, Zh. Fiz. Khim., Vol 21, No 2, 1947, pp. 201-214.
CRL/D 809

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Inorganic Perioxides, Chapter XI, Upper Potassium Oxides, by I. A. Kazarnovskiy, S. I. Raikhshtein, 14 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXI, No 3, 1947, pp 245-255. 9080644

AEC Tr-4758

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Approaches for Determining Dissociation Pressures, by S. Raikhshtein, I. Kazarnovskiy.

RUSSIAN, par, Zhur Fiz Khim, Vol XXI, No 2, 1947, pp 257-260.

CSIRO 3510

Sci - Phys
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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

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Type I and Type 2 Polarographic Maxima, by T. A. Kryukova.
RUSSIAN, per. Zhurnal Fizicheskoi Khimii, Vol 21, 1947, pp 365-375.
NLL NTS 3714

Sci-Chem
Nov 67

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

Talkis, D. S.
HETEROGENEOUS EQUILIBRIA IN BINARY SYSTEMS: ETHYLENE-CARBON DIOXIDE AND ETHYLENE-NITROGEN SYSTEMS, tr. by J. H. Gallant. 27 Dec 60) [9]p. 11 refs. ARGMA Trans. Nr. 114-60.
Order from OTS or SLA $1.10 61-15356

Trans. of Zhurnal Piricheskoi Khimii (USSR) 1947, v. 21, no. 3 [p. 355-359].

DESCRIPTORS: *Ethylenes, *Carbon dioxide, *Nitrogen, Chemical equilibrium.

The ethylene-nitrogen and ethylene-carbon dioxide systems were studied at 0° and up to 7000 kg/cm^2. The ethylene-nitrogen system remained homogeneous throughout the whole temperature and pressure range. The ethylene-carbon dioxide system has a crystal-liquid equilibrium. The volatilities and molar volumes of liquid ethylene were calculated up to 7000 atm. An (Chemistry--Physical, TT, v. 6, no. 6) (over)

61-15356

I. Talkis, D. S.
II. ARGMA Trans-114-60
III. Army Rocket and Guided Missile Agency, Redstone Arsenal, Ala.

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

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Preparation of Basic Salts of Aluminum and Investigation of Their Properties, by M. Ye. Shishnyashvili, V. A. Kargin, A. L. Batsandadze, 8 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXI, 1947, pp 391-396.

SLA 60-17723

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Surface Tension and Crystallization Surface Tension of Solutions of Molten Salts, Parts I, II, III., by V. K. Semenchenko, I. P. Shikhobalova, 56 pp.

RUSSIAN per, Zhur Fiz Khim, Vol XXI, 1947, pp 612-622; 707-714; 1387-1401,

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Scientific - [redacted], Physics Jul 55 CTS

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

Crystalline Structure of Cyanides, IV. X-Ray Diffraction Studies of Elementary Cells and Space Group of $K_4Ru(CN)_6.3H_2O$ (Potassium Hexacyanotriaquoruthenate) and $K_4Fe(CN)_6.3H_2O$ (Monoclinic Type) Crystals by V. A. Pospelov and G. S. Zhdanov, 10 pp.

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Breger, A. Kh. and Zhukhovitskii, A. A.
OVER EEN MOGELIJK MECHANISME VAN DE WISSEL WERKING TUSSEN GEADSORBEERDE ATOMEN
(A Possible Mechanism of Interaction Between Adsorbed Atoms) tr. by G. J. M. Fritschy. 11p. 5 refs. MTWL: 52. (text in Dutch).
Order from OTS or ETC $1.55 61-17650

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1947, v. 21, p. 423-430.

DESCRIPTORS: Atoms, *Adsorption, Chemical reactions, *Catalysts, Surfaces.

61-17650

I. Breger, A. Kh.
II. Zhukhovitskii, A. A.
III. MTWL-52
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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The Thermodynamics of Solubility in Ternary Aqueous Salts Systems Temperature Coefficients of Solubility, by N. K. Voskresenskaya G. N. Yankovskaya, 11 pp.

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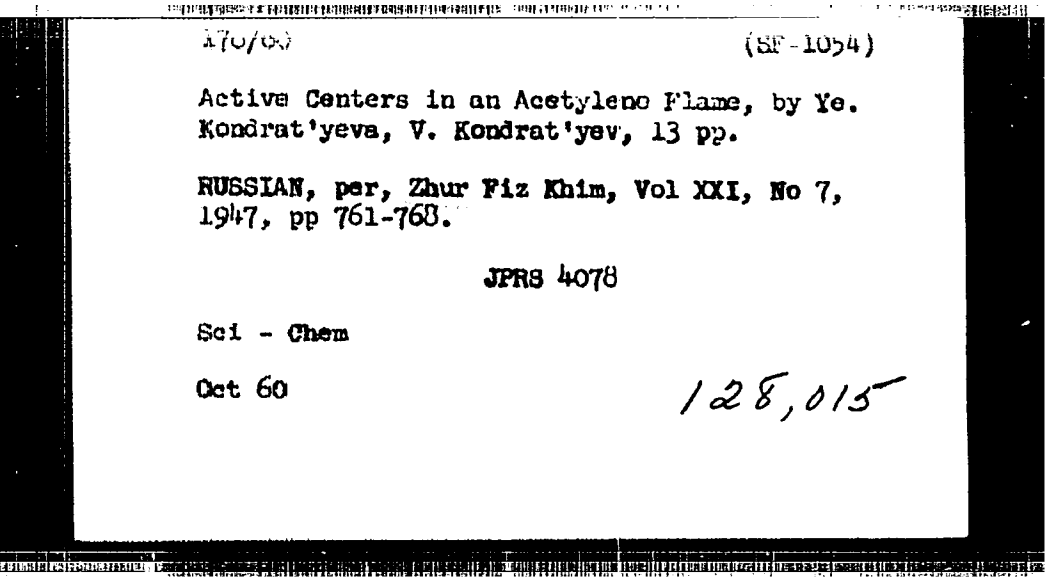

A70/63 (SF-1054)

Active Centers in an Acetylene Flame, by Ye. Kondrat'yeva, V. Kondrat'yev, 13 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXI, No 7, 1947, pp 761-768.

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16 pp

"The System Iron-Nitrogen at High Pressures"

I. R. Krichevskiy, N. E. Khazanova

OC Digest X
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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

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Effect of the Free Energy of the Process of Preparing Pyrolytic Nickelous Oxide on Activated Adsorption, by S. Z. Roginskiy, T. P. Tsalinskaya,

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On the Kinetics of the Syntesis and Dissociation of Ammonia on Various Catalysts, by M. Temkin, S. Kiperman, 39 pp.

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Veselovskii, V. I.
APPLICATION OF THE PHOTOELECTROCHEMICAL METHOD TO THE STUDY OF HETEROGENEOUS PHOTOSENSITIZERS OF THE ZINC OXIDE TYPE (Primenenie Svetoelektrokhimicheskogo Metoda k Issledovaniyu Getrogennykh Fotosensi'ilizatorov Tipa ZnO). [1962] [10]p. (foreign text included) 6 refs. Order from OTS or SLA $1.10 62-16107

Partial trans. (excerpts) of Zhurnal Fizicheskoi Khimii (USSR) 1947, v. 21, no. 8, p. 983-985.

DESCRIPTORS: *Zinc compounds, *Oxides, *Photosensitivity, Photochemistry, *Electrochemistry, Photoelectric effect, Absorption spectra.

OTS-2718

(Chemistry--Physical, TT, v. 8, no. 5)

62-16107

I. Veselovskii, V. I.

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Bruns, B. P.
KATALYSE IN STADIA (Catalysis in stages). 16 p. 25 refs. MTWL: 582. (Text in Dutch).
Order from OTS or ETC $1.85 61-17297

Trans. of Zhurnal Fizicheskoĭ Khimii (1947), v. 21, p. 1011-1018.

DESCRIPTORS: *Catalysis, Adsorption, Theory, Chemical bonds, Surface properties.

61-17297

I. Bruns, B. P.
II. MTWL-582
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Kinetics of Carbon Elimination From a Steel Bath,
by L. A. Shvartsman, A. M. Samarin, M. I. Temkin

RUSSIAN, zo per, Zhur Fiz Khim, Vol XXI, No 9,
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Ottawa, Canada

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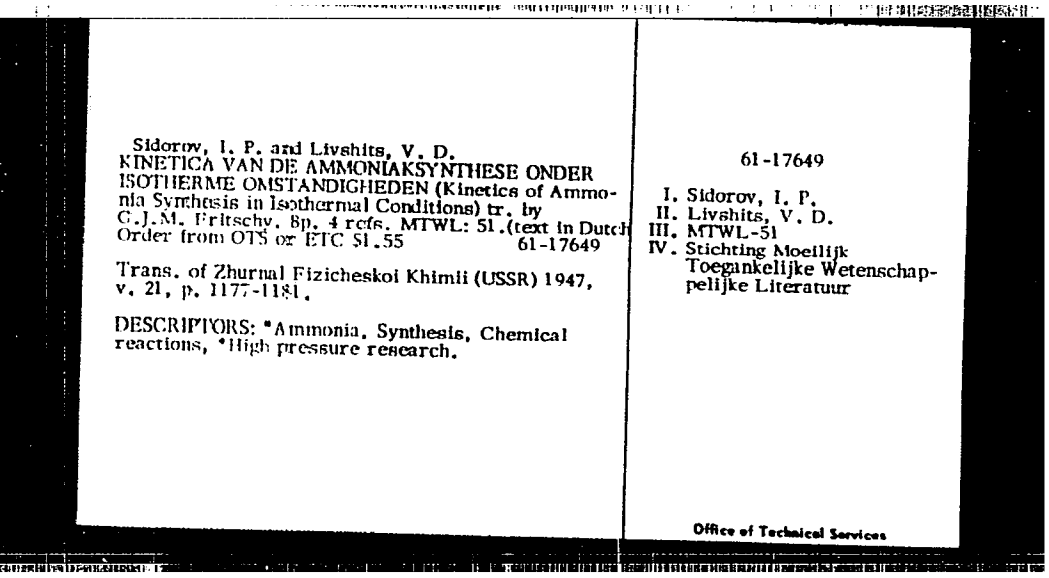

Sidorov, I. P. and Livshits, V. D.
KINETICA VAN DE AMMONIAKSYNTHESE ONDER ISOTHERME OMSTANDIGHEDEN (Kinetics of Ammonia Synthesis in Isothermal Conditions) tr. by G.J.M. Fritschy. 8p. 4 refs. MTWL: 51.(text in Dutch) Order from OTS or ETC $1.55 61-17649

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1947, v. 21, p. 1177-1181.

DESCRIPTORS: *Ammonia, Synthesis, Chemical reactions, *High pressure research.

61-17649

I. Sidorov, I. P.
II. Livshits, V. D.
III. MTWL-51
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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Effect of Surface-Active Substances on Movement at the Boundary Between Liquid Media, by A. Frumkin, V. Levich, 25 p.

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Cold Flames and Two-Stage Self-Ignition in Benzene-Air Mixtures, by A. B. Sokolik, et al. UNCL

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JPRS 59-19074

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Thermal Reaction of Acetylene, IV. The Nature of the Induction Period, by E. A. Blyumberg, D. A. Frank-Kamenetskiy,

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Kinetics of Exothermal Reactions Occurring Under Adiabatic Conditions

I. Gol'dman (Inst for Kino-Photo Research, Moscow)

(Wilson Dam 2640)

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Surface Conductivity of Solid Dielectrics
by N. Chirkov

AEC Trans (avail. Brookhaven) RT-1756

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13 218 Ca-1

VOL'KENSHTEIN F. F.

The electronic levels of atoms adsorbed on the surface of a crystal. I.

Zhur. Fiz. Khim., 21, No. 11, 1317-1334 (1947)

TT 167 - English

Euratom

AEC TR-367

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13 206 Ca-1

VOL'KENSHTEIN F. F.

On the interactions between adsorbed molecules in connection with the theory of adsorption of heterogeneous surfaces

Zhur. Fiz. Khim., 21, No. 2, 163-178 (1947)

TT 120 - English

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AEC TR 214

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

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Zh. Fiz. Khim. Vol 21, 873-86 (1947)

Sorption and Structure of Activated Charcoals II. Work on the Sorption of Water Vapor

M. M. Dubinin
E. D. Zaverina

Trans by Def Res Bd., Canada (X-372)
1 Aug 1950 listing

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The Kinetics of Ammonia Synthesis of Ruthenium,
by S. Kiperman, 30 pp.
RUSSIAN, per, Zhur Fiz. Khimii, Vol 21, No 12,
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Second Order Phase Transitions and Critical Phenomena, by V. K. Semenchenko

RUSSIAN, per, Zhur Fiz Khim, Vol XXI, 1947, pp 1461-1469.

Nat'l Res Council Canada TT 108

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Polarization of the Inner Surface of a Tube, by
O. S. Kosenbek, V. V. Stender, 23 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXI, 1947, pp 117-127.

AEC-tr-5820

Sci - Phys

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Polarization in the Polarography of Nickel and Cobalt Pyridine Complexes, by Kh. I. Tur'yan and G. F. Serova.
RUSSIAN, per. Zhur. fiz. Khim., Vol 31, 1957, pp 1976-1982.
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II. Approximated Calculation of Vibration Frequencies of Alcohols, Ethers, and Amines, by N. M. Gopshtein, 12 pp.

RUSSIAN, per, Zhur Fiz. Khim, Vol XXII, No 1, 1948, pp 11-19.

Sci Trans Center RT-408

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Frequency Calculation and the Interpretation of Vibrational Spectra of Polyatomic Molecules. II. Dimethyl Ether, Mercaptan, by S. I. Ryskina, 8 pp.

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Sci Trans Center RT-407

SLA R-3000

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Theory of flame propagation, by Ya. B. Zel'dovich, 39 pp.

RUSSIAN, per, Zhur Fiz Khim, #. 22, 1948, pp 27-49.
(See United States: National Advisory Committee for Aeronautics.)

Technical memorandum 1282.

51/2493.

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Zel'dovich, Ya.B.
BIJDRAGE TOT DE THEORIE VAN DE VOORTPLANTING VAN FLAMMEN (Theory of propagation of flames). tr. by G.J.M. Fritchy. 30 p. 16 refs.
MTWL: 467 (Text in Dutch).
Order from OTS or ETC $2.45 61-17032

Trans. of Zhurnal Firicheskof Khimii (USSR) 1948, v. 22, p. 27-48.

DESCRIPTORS: *Flame propagation, Theory.

61-17032

I. Zel'dovich, Ya.B.
II. MTWL-467
III. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur.

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The Boiling Point and Heat of Evaporation of Some Secondary Explosive Substances, by A. F. Belyaev.

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Scientific - Chemistry Oct 1949 CTS

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ZHUR FIZ KHIM Vol XXII, No 2 Feb 1948

"The Valence States of the Carbon Atom" $2\frac{1}{4}$ pp

M. A. Kovner

Available a) Brookhaven
AEC tr - 229
July 1950

64T18

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

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Oxidation of Ammonia on Platinum and Platinum-Rhodium Gauze, I, II, by L. Apel'baum, M. Tomkin (PA 64T20, 64T21), 35 pp.

RUSSIAN, pub, Zhur Fiz Khim, Vol XXII, 1948, No 2, pp 179-194, 195-208.

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SLA R-2989

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ZHUR FIZ KHIM Vol XXII, No 2 Feb 1948

"Electrochemical Investigation of the Processes of Corrosion of Metals in Solutions of Ethylene-Glycol" 11pp.

N. D. Tomashov, M. A. Timonova

Done by AMC
NAD 44774-D
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ATS RT-4/56

64T67

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

ZHUR FIZ KHIM Vol XXII, No 2 Feb 1948

"Research on the Inflammability of Gas Mixtures" 8 pp

M. B. Neyman, Kh. M. Rubina

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64T85

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

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A Kinetic Method of Physicochemical Analysis. II. Kinetics of the Reaction of Tinsodium Alloys With Ethyl Bromide Vapor, by M. B. Neyman, V. A. Shushunov, 30 pp.

RUSSIAN, no per, Zhur Fiz. Khim, Vol XXII, No 2, 1948, pp 145-155.

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RT-3924 37,879

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

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Shushunov, V. A. and Shlapnikov, Yu. A.
KINETIC METHOD OF PHYSICAL CHEMICAL ANALYSIS. III. KINETIC REACTION OF THE TERNARY ALLOYS Na + Pb + Mg WITH THE VAPORS OF ETHYL CHLORIDE. [1963] 10p. (figs. omitted) 7 refs.
Order from OTS or SLA $1.10 63-16041

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1948, v. 22 [no. 2] p. 157-160.

DESCRIPTORS: *Phase studies, Chemical analysis, *Sodium alloys, *Lead alloys, *Magnesium alloys, *Ethanes, Chlorides, Vapor pressure, Ethyl radicals, Lead, Synthesis (Chemistry), Reaction kinetics.

It was established that the addition of magnesium to NaPb alloy does not modify the character of the kinetic curves of the reaction forming tetraethyllead. The
(Chemistry--Physical, TT, v. 10, no. 6) (over)

63-16041

I. Shushunov, V. A.
II. Shlapnikov, Yu. A.
III. Title: Kinetic...

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910036-6

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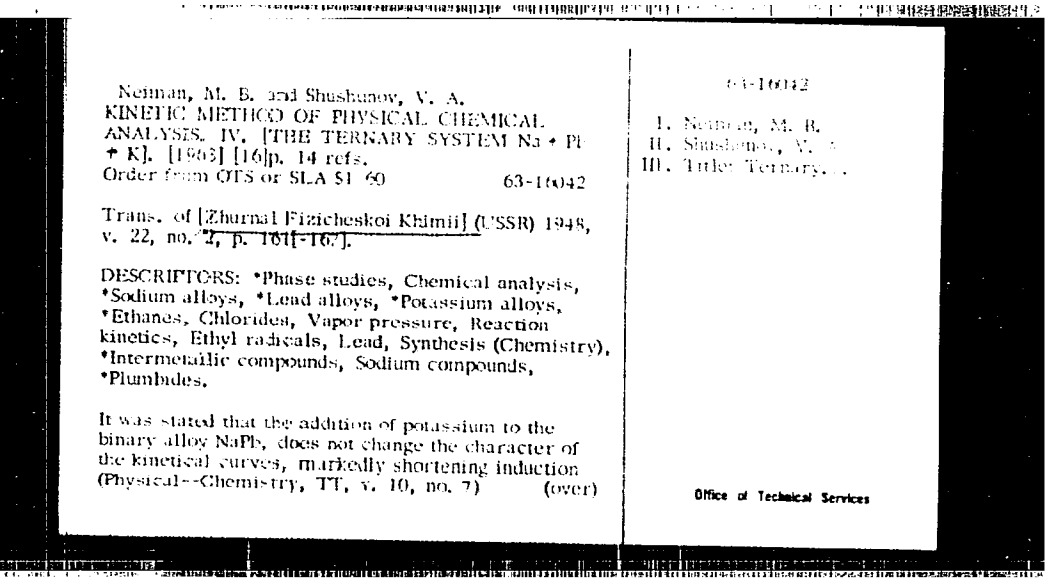

Neiman, M. B. and Shushunov, V. A.
KINETIC METHOD OF PHYSICAL CHEMICAL ANALYSIS. IV. [THE TERNARY SYSTEM Na + Pb + K]. [1963] [16]p. 14 refs.
Order from OTS or SLA $1.60 63-16042

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1948, v. 22, no. 2, p. 161[-167].

DESCRIPTORS: *Phase studies, Chemical analysis, *Sodium alloys, *Lead alloys, *Potassium alloys, *Ethanes, Chlorides, Vapor pressure, Reaction kinetics, Ethyl radicals, Lead, Synthesis (Chemistry), *Intermetallic compounds, Sodium compounds, *Plumbides.

It was stated that the addition of potassium to the binary alloy NaPb, does not change the character of the kinetical curves, markedly shortening induction (Physical--Chemistry, TT, v. 10, no. 7) (over)

63-16042

I. Neiman, M. B.
II. Shushunov, V. A.
III. Title: Ternary...

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SEMENCHENKO, V.K., and SHAKHPARONOV, M. I.
R 1023. Verification of the general equation of solubility. Zhur. Fiz. Khim., 22, p.243-54, 1948. (15p.)

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'The Phenomenon of Excitation Lag of Internal Degrees of Freedom During Chemical Reactions, 18 pp. by A. E. Shtundel'

ZHUR. FIZ. KHIM

RUSSIAN, per, J. Phys. Chem. (USSR) No 3, 289 (1948).

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Scientific - Physics

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ZHUR FIZ KHIM Vol XXII, No 3 Mar 1948

"The Electronic Theory of the Promotion and Poisoning of Ionic Catalysts" 20 pp. pp. 311-330

F. F. Vol'kenshteyn

AEC Trans. 277
Avail a) Brookhaven

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Several Invariant Quantities in the Theory of Heat Conductivity and the Viscosity of Liquids, by A. A. Predvoditelev, 10 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXII, No 3, Mar 1948.

PP 337-346.

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SLA R-2607

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Standard Electrode Potentials and E.M.F. Measurements in Acetonitrile, by V. A. Pleskov, 24 pp.

RUSSIAN; pub: Zhur Fiz Khim, Vol XXII, No 3, 1948, pp 351-361.

Sci Trans Center RT-878

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ZHUR FIZ KHIM Vol XXII, No 4 Apr 1948

"The Kinetics of the Homogeneous Decomposition of Acetone to Ketene in the Presence of Steam" 10 pp.

V. B. Fal'kovskiy, M. Ya. Kagen

AEC Tr-354
Brookhaven

67T13

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ZHUR FIZ KHIM Vol XXII, No 4 Apr 1948

"Research on the Structure of the Bunsen Burner Flame"
11 pp.

K. S. Zarembo, Ya. B Zel'dovich

Done by Cryogenie Lab, Ohio State
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